PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
03TK 0480WOP	ACTION as we	Il as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2004/009848	03/09/2004	04/09/2003
Applicant		
DEUTSCHE TELEKOM AG		
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Searching Aut ansmitted to the International Bureau	hority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	report.
Basis of the report a. With regard to the language, the language in which it was filed, unline.	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the
The international this Authority (Ru	search was carried out on the basis of a transle 23.1(b)).	ation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequence disclosed	in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).	
3. Unity of invention is lack	king (see Box III).	
4. With regard to the title,	•	
X the text is approved as su	, ,,	
the text has been establish	hed by this Authority to read as follows:	•
	*	
5. With regard to the abstract,		
X the text is approved as sub		
may, within one month from	ned, according to Rule 38.2(b), by this Authority m the date of mailing of this international searc	y as it appears in Box No. IV. The applicant h report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be pu	ublished with the abstract is Figure No. 1	
X as suggested by the	•	
	Authority, because the applicant failed to sugg	•
	Authority, because this figure better character	izes the invention.
b none of the figures is to be	published with the abstract.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/009848

CLASSIFICATION OF SUBJECT MATTER 7 H04B10/18 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Υ US 6 583 903 B1 (WAY DAVID G ET AL) 1-3,5-924 June 2003 (2003-06-24) 12 - 14, 16column 2, line 33 - line 50 column 7, line 65 - column 8, line 35 column 10, line 1 - line 32 column 15, line 37 - column 18, line 47 DJUPSJÖBACKA A.: "Calculation of Signal Υ 1-3,5-9Outage due to Polarization Mode 12 - 14, 16Dispersion" IEE PHOTONICS TECHNOLOGY LETTERS vol. 13, no. 7, July 2001 (2001-07), pages 660-662, XP002315789 the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed *&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 31 January 2005 17/02/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Vaquero, R Fax: (+31-70) 340-3016

3

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/009848

C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	101/21/200	.,
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Р,Х	EP 1 376 907 A1 (ADAPTIF PHOTONICS GMBH) 2 January 2004 (2004-01-02) paragraph '0005! - paragraph '0015! paragraph '0019! - paragraph '0025! paragraph '0029! - paragraph '0032! figure 1		1-9, 12-14,16
(US 2002/131129 A1 (MAO XIAOPING CHARLES) 19 September 2002 (2002-09-19) paragraph '0006! - paragraph '0008! paragraph '0010! - paragraph '0017! paragraph '0023! paragraph '0031! - paragraph '0045! claim 1		1,3,5-9, 12-14,16
	SUNNERUD H ET AL: "Outage probabilities in PMD compensated transmission systems" ECOC '01, vol. 2, 30 September 2001 (2001-09-30), pages 204-205, XP010582631 the whole document		1,3,5-9, 12-14,16
	EP 0 578 380 A1 (AMERICAN TELEPHONE AND TELEGRAPH COMPANY; AT&T CORP) 12 January 1994 (1994-01-12) column 3, line 56 - column 7, line 51		1-16
	BORODITSKY M ET AL: "IN-SERVICE MEASUREMENTS OF POLARIZATION-MODE DISPERSION AND CORRELATION TO BIT-ERROR RATE" IEEE PHOTONICS TECHNOLOGY LETTERS, IEEE INC. NEW YORK, US, vol. 15, no. 4, April 2003 (2003-04), pages 572-574, XP001175228 ISSN: 1041-1135 the whole document		1-16
		- \$.	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/009848

Patent documer cited in search rep		Publication date		Patent family member(s)	Publication date
US 6583903	B1	24-06-2003	AU CA EP JP WO	4332501 A 2404204 A1 1269661 A1 2003526255 T 0165733 A1	12-09-2001 07-09-2001 02-01-2003 02-09-2003 07-09-2001
EP 1376907	A1	02-01-2004	NONE		
US 20021313	.29 A1	19-09-2002	US	6396606 B1	28-05-2002
EP 0578380	A1	12-01-1994	US DE DE JP JP	5311346 A 69326105 D1 69326105 T2 3014244 B2 6061948 A	10-05-1994 30-09-1999 27-04-2000 28-02-2000 04-03-1994